IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

A policiant: Stanley S. Toncich) Dkt. No.: UTL 00004

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09/927,136

Filed:

August 10, 2001

Art Unit: 2821

Title:

TUNABLE MATCHING CIRCUIT

Examiner: Tho Gia Phán

fru the

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner for Patents Washington, D.C. 20231

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Dear Sir:

Pursuant to 37 C.F.R. 1.97 and 1.98 and the duty of disclosure set forth in 37 C.F.R. 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A submitted herewith. A copy of each of the listed references is also enclosed. A fee of \$180.00 is enclosed pursuant to 37 C.F.R. \$1.17(p).

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being submitted by express mail pursuant to 37 C.F.R. § 1.10, and therefore has a filing date of the date of deposit. This submission includes:

- 1. Information Disclosure Statement by Applicant (6 pages)
- 2. One Copy of Each Reference
- 3. Fee Transmittal (In Duplicate)
- 4. Credit Card Payment Form (1 page)

5. Postcard

I certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first was mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

William J. Kolegraff

Date of Deposit: September 18, 2002

Respectfully submitted September 18, 2002. Please address any questions or comments to the undersigned.

William J. Kolegraff Kyocera Wireless Corp. PO Box 928289

San Diego, CA 92192-8289 Phone: 858/882-2000

Reg. No. 41,125

PTO/SB/17 (11-00)

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$) 180.00

Complete if Known					
Application Number	09/927,136				
Filing Date	August 10, 2001				
First Named Inventor	Stanley S. Toncich				
Examiner Name	Tho Gia Phan				
Group Art Unit	2821				
Attorney Docket No.	LITI 00004				

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Name (PrintiType) William J. Kolegraff		stration N nevlAgent		1,125	Telephone	858-882-	2000
Signature / //w///			-		Date	Septembe	r 18, 2002

PTO/SB/08A (10-01)
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control number.

Complete if Known Substitute for form 1449A/PTO **Application Number** 09/927,136 INFORMATION DISCLOSURE Filing Date August 10, 2001 STATEMENT BY APPLICANT Stanley S. Toncich **First Named Inventor** Art Unit 2821 (use as many sheets as necessary) Examiner Name Tho Gia Phan 1 of Attorney Docket Number UTL 00004 Sheet

			U.S. PATI	ENT DOCUMENTS	
Examiner Initials		Document Number Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	_{US-} 5,729,239	03-17-1998	Rao, Jaganmohan B.L.	
	2	US- 6,049,726	04-11-2000	Gruenwald, Werner, et al.	
	3	us- 6,160,524	12-12-2000	Wilber, William	
	4	US- 6,198,441 B1	03-06-2001	Okabe, Hiroshi	
	5	us- 6,028,561	02-22-2000	Takei, Ken	
	6	us- 5,973,567	10-26-1999	Heal, Mark D., et al.	
	7	US- 4,475,108	10-02-1984	Moser, Kenneth R.	Abstract, Fig. 1
	8	us- 3,678,305	07-18-1972	George, Edward	•
	9	us- 3,918,012	11-04-1975	Peuzin, Jean Claude	
	10	us- 5,450,092	09-12-1995	Das, Satyendranath	
	11	us- 6,333,719 B1	12-25-2001	Varadan, Vijay K.	
	12	US- 5,212,463	05-18-1993	Babbitt, Richard W., et al.	
	13	us- 4,733,328	03-22-1988	Blazej, Daniel C.	
	14	us- 5,617,104	04-01-1997	Das, Satyendranath	
	15	_{US-} 5,307,033	04-26-1994	Koscica, Thomas E., el al.	
	16	US- 5,427,988	06-27-1995	Sengupta, Louise, et al.	
	17	us- 5,557,286	09-17-1996	Varadan, Vijay K., et al.	
	18	us- 5,561,407	10-01-1996	Koscica, Thomas E., el al.	
	19	us- 5,589,845	12-31-1996	Yandrofski, Robert M.	
	20	us- 5,496,795	03-05-1996	Das, Satyendranath	

		FORE	IGN PATENT D	OCUMENTS		
Examiner Initials	Cite No. 1	Foreign Patent Document Country Code 3 - Number 4 - Kind Code 5 (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
	21	WO 00/62367	10-19-2000	Carlsson, Erik, et al.		
	22	JP 29-05-00 2001338839	07-12-2001	Tsuneo, Mishima		
i	23	EP 0 637 131 A1	02-01-1995	Fujita Masanori		
	24	EP 0 843 374 A2	05-20-1998	Muller, Frithjoj E., et al.	_Abstract, Fig. 1_	
	25	EP 0 638 953 A1	02-15-1995	Yasuoka, et al.		
Ī	26	WO 00/35042	06-15-2000	Sengupta, Louise, et al.		
	27	EP 0 680 108 A1	11-02-1995	Atokawa, Masayuki		
	28	EP 0 881 700 A1	12-02-1998	Atokawa, Masayuki		
	29	WO 00/28613	05-18-2000	Sengupta, Louise, et al.		
	30	DE 40 36 866 A1	07-25-1991	Yamamoto, Masaki		

Examiner	Date	
Signature	Considered	

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Complete if Known **Application Number** 09/927,136 INFORMATION DISCLOSURE Filing Date August 10, 2001 STATEMENT BY APPLICANT Stanley S. Toncich **First Named Inventor** 2821 Art Unit Tho Gia Phan Examiner Name Attorney Docket Number UTL 00004

	U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Document Number Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	31	us- 6,097,263	08-01-2000	Mueller, Carl H., et al.			
	32	us- 5,987,314	11-16-1999	Salto, Atsushi			
	33	us- 5,472,935	12-5-1995	Yandrofski, Robert, et al.			
	34	us- 4,799,066	01-17-1989	Deacon, Malcolm J.			
	35	us- 5,166,857	11-24-1992	Avanic, Branko, et al.			
	36	us- 5,880,921	03-09-1999	Tham, J.L. Julian, et al.			
	37	us- 5,640,042	06-17-1997	Koscica, Thomas E., el al.			
	38	us- 4,835,499	05-30-1989	Pickett, Michael N.	Abstract, Fig. 3		
	39	us- 3,413,543	11-26-1968	Schubring, et al.	Col. 4, lines 3- 31, Fig. 2		
	40	us- 5,945,887	08-31-1999	Makino, Toshihiro, et al.			
	41	us- 5,973,568	10-26-1999	Shapiro, Gary, et al.			
	42	us- 5,216,392	06-01-1993	Fraser, Randall S.			
	43	us- 3,676,803	07-11-1972	Simmons, William J.			
	44	us- 3,836,874	09-17-1974	Maeda, Minoru, et al.			
	45	us- 5,778,308	07-07-1998	Sroka, Peter, et al.			
	46	US- 5,777,524	07-07-1998	Wojewoda, Carl E., et al.			
	47	us- 6,052,036	04-18-2000	Enstrom, Hakan, et al.			
	48	∪s- 6,292,143 B1	09-18-2001	Romanofsky, Robert R.			
	49	us 5,617,104	04-01-1997	Das, Satyendranath			
	50	_{US-} 5,496,795	03-05-1996	Das, Satyendranath			

		FORE	IGN PATENT D	OCUMENTS		_
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	51	EP 1 043 741 A2	10-11-2000	Klee, Mareike, et al.		
	52	EP 0 795 922 A1	09-17-1997	Tsuru, Teruhisa, et al.		
	53	EP 0 909 024 A2	04-14-1999	Nakamichi, et al.		
	54	WO 00/79648 A1	12-28-2000	Varadan, Vijay K., et al.		
	55	WO 00/79645 A1	12-28-2000	Falk, Kent, et al.		
	56	WO 94/13028	06-09-1994	Yandrofski, et al.	Col. 8, lines 9-26,	
	57				Figs. 30-31; p. 14,	
	58				par. 4, abst.,	
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Complete if Known Substitute for form 1449B/PTO 09/927,136 **Application Number** INFORMATION DISCLOSURE August 10, 2001 Filing Date Stanley S. Toncich STATEMENT BY APPLICANT First Named Inventor 2821 Group Art Unit Tho Gia Phan (use as many sheets as necessary) **Examiner Name** of Attorney Docket Number UTL 00004 Sheet

Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), sublisher, city, and/or country where publishers.	T ²
	61	A. Presser, "Varactor-Tunable, High-Q Microwave Filter," RCA Review, Vol. 42, Dec. 1981, pp. 691-705.	
	62	C. Chang and T. Itoh, "Microwave Active Filters Based on Coupled Negative Resistance Method," IEEE Trans. on Microwave Theory and Techniques, Vol. 38, No. 12, Dec. 1990, pp. 1879-1884.	
	63	P. Katzin, B. Bedard, and Y. Ayasli, "Narrow-Band MMIC Filters with Automatic Tuning and Q-Factor Control," 1993 IEEE MTT-S Int. Microwave Symp. Digest pp.403-406.	
	64	B. Hopf, I. Wolff, and M. Guglielmi, "Coplanar MMIC Active Bandpass Filters Using Negative Resistance Circuits," 1994 IEEE MTT-S Symposium Digest, pp. 1183-1185.	
	65	U. Karacaoglu and I.D. Robertson, "High Selectivity Varactor-Tuned MMIC Bandpass Filler Using Lossless Active Resonators," 1994 IEEE MTT-Symposium Digest, pp. 1191-1194.	
	66	B. Nauta, "A CMOS Transconductance-C Filter Technique for Very High Frequencies," IEEE Journal of Solid-State Circuits, Vol. 27, No. 2, February 1992, pp. 142-153.	
	67	K Fujita, H. Itoh, R. Yamamoto, "A 15.6 GHz Commercially Based 1/8 GaAs Dynnamic Preseater," 1989 IEEE GaAs IC Symposium, pp. 113-116.	
	66	J. Smuk, P. Katzin, "MMIC Phase Locked L-S Band Oscillators," 1994 IEEE GaAs Symposium Digest, pp. 27-29.	
	69	S. R. Chandler, I. C. Hunter, and J.G. Gardiner, "Active Varactor Tunable Bandpass Filter," IEEE Microwave and Guided Wave Letters, Vol. 3, No. 3, March 1993, pp. 70-71.	
	70	I. C. Hunter and John D. Rhodes, "Electronically Tunable Microwave Bandpass Filters," IEEE Trans. on MTT, Vol. 30, No. 9, September 1982, pp. 1354-1367.	
	71	S. Toyoda, "Quarter-wavelength Coupled Variable Bandstop and Bandpass Filters Using Varactor Diodes," IEEE Trans. on Mtt. Vol. 30, No. 9, September 1982, pp. 1387-1389.	

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Examiner	Date
Signature	Considered

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OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS						
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	72	B. Yu. Kapilevich, "Variety of Approaches to Designing Microwave Active Filters," Proc. 27th European Microwave Conf., Jerusalem, Vol. 1, 1997, pp. 397-408.				
	73	B. Yu. Kapilevich, "Understand the Operation of Channelized Active Filters," Microwaves & RF, January 1997, pp. 89-92.				
	74	M. Dishal, "Alignment and Adjustment of Synchronously Tuned Multiple Resonator-Circuit Filters" Proc. IRE 39, November 1951, pp. 1448-1455.				
	75	S. B. Cohn, "Dissipation Loss in Multiple-Coupled-Resonator Filters," Proc. IRE 47, August 1959, pp. 1342-1348.				
	76	G. L. Matthaei, "An Electronically Tunable Up-Converter," Proc. IRE 49, November 1961, pp. 1703-1704.				
	77	E. G. Fubini and E.A. Guillemin, "Minimum Insertion Loss Filters," Proc. IRE 47, January 1959, pp. 37-41.				
	78	W.J. Getsinger, "Prototypes for Use in Broadbanding Reflection Amplifiers," IEEE Trans. PTGMTT-11, November 1963, pp. 486-497.				
	79	E.S. Kuh and M. Fukada, "Optimum Sunthesis of Wide-Band Parametric Amplifiers and Converters," IRE Trans. PCCT-8, December 1961, pp.410-415.				
	80	W. J. Getsinger and G.L. Matthaei, "Some Aspects of the Design of Wide-Band Up-Converters and Nondegenerate Parametric Amplifiers," IEEE Trans. PTGMTT-12, January 1964, pp. 77-87.				
	81	R. L. Sleven, "Design of a Tunable Multi-Cavity Waveguide Band-Pass Filter," 1959 IRE National Convention Record, Part 3, pp. 91-112.				
	82	J.J. Taub and B. F. Bogner, "Design of Three-Resonator Dissipative Band-Pass Filters Having Minimum Insertion Loss," Proc. IRE 45, pp. 681-687 (May 1957).				

Examiner	Date
Signature	Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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INFOR	KIMATION L	JIS	CLOSURE	Filing Date	August 10, 2001
STATI	EMENT BY	' Δ	PPLICANT	First Named Inventor	Stanley S. Toncich
VIAII		_	LICAN	Group Art Unit	2821
	(use as many shee	ets as	s necessary)	Examiner Name	Tho Gia Phan
Sheet	5	of	6	Attorney Docket Number	UTL 00004

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published.	T ²
	83	K.L. Kotzebue, "Broadband Electronically-Tunable Microwave Filters," 1960 IRE Wescon Convention Record, Part 1, pp.21-27.	
	84	J.P. Louhos and I. Pankinaho, "Electrical Tuning of Integrated Mobile Phone Antennas," Nokia Mobile Phones, pp. 69- 97 (September 15, 1999).	
	85	P. K. Panayi, M. Al-Nuaimi, and L. P. Ivrissimtzis, "Tuning Techniques for the Planar Inverted-F Antenna," National Conference on Antennas and Propagation Publication, No. 461, pp. 259-262 (April 1999).	
	86	Satoshi Makioka, et al., "A High Efficiency GaAs MCM Power Amplifier for 1.9 GHz Digital Cordless Telephones," IEEE 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium, pp. 51-54 (1994).	
	87	V. K. Varadan, K. A. Jose, V. V. Varadan, "Design and Development of Electronically Tunable Microstrip Antennas," IOP Publishing Ltd., pp.238-242 (1999).	
	88	Communication Relating to the Results of the Partial International Search: PCT/IB 02/01077 (2002).	
	89	International Search Report: PCT/IB 02/01086 (June 24, 2002).	
	90	International Search Report: PCT/IB 02/01078 (July 10, 2002).	
	91	International Search Report: PCT/IB 02/01087 (July 19, 2002).	
	92	International Search Report: PCT/IB 02/01107 (July 11, 2002).	
	93	International Search Report: PCT/IB 02/01120 (July 11, 2002).	

Examiner	Date
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Application Number	09/927,136	
Filing Date	August 10, 2001	
First Named Inventor	Stanley S. Toncich	
Group Art Unit	2821	
Examiner Name	Tho Gia Phan	
Attorney Docket Number	UTL 00004	

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	95	International Search Report: PCT/IB 02/01082 (July 8, 2002).	
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